INSIGHT VIDEONET

TOUGHBOOK Arbitrator mobile digital video system

Arbitrator SI

Administrator Manual

Version 1.9.2 | Revision B

10400 Trademark St. | Rancho Cucamonga, CA 91730 | P 909.373.1800 | F 909.373.1805 | InsightVideoNet.com

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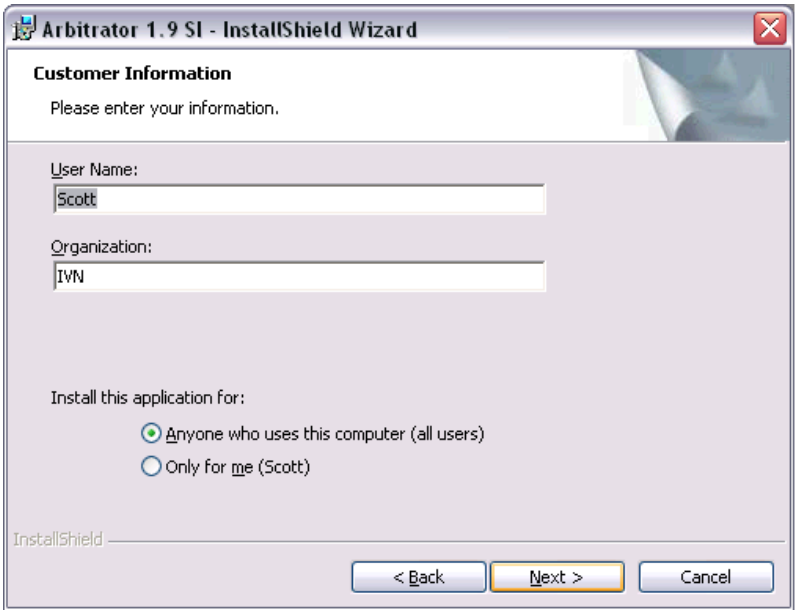
Installation

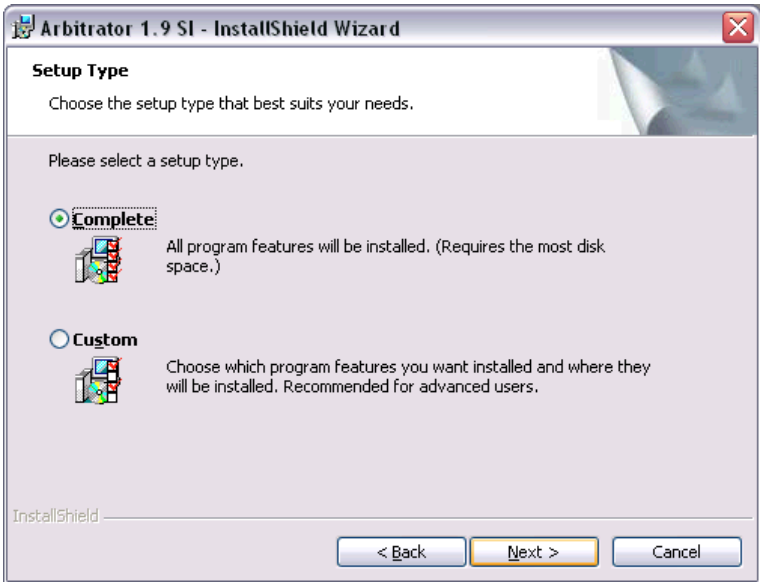
1. Double-click the Arbitrator SI icon. Click ***Next***.

Arbitrator 1.9 SI - InstallShield Wizard
Welcome to the InstallShield Wizard for Arbitrator 1.9 SI
The InstallShield(R) Wizard will install Arbitrator 1.9 SI on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

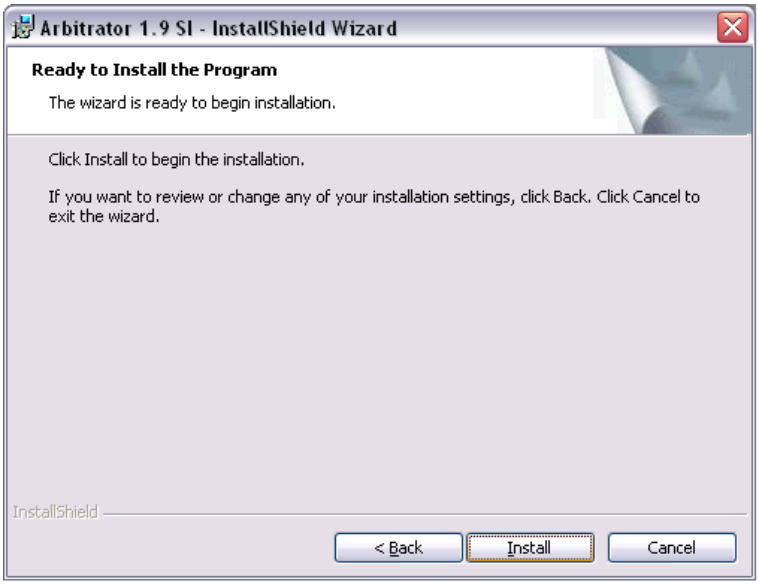
2. Enter ***User Name*** and ***Organization***. Check *Anyone who uses this computer (all users)* then click ***Next***.



3. Check ***Complete*** and then click ***Next***.


Arbitrator 1.9 SI - InstallShield Wizard
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Custom
Choose which program features you want installed and where they will be installed. Recommended for advanced users.
InstallShield
< Back
Next >
Cancel

4. Click ***Install***.


Arbitrator 1.9 SI - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

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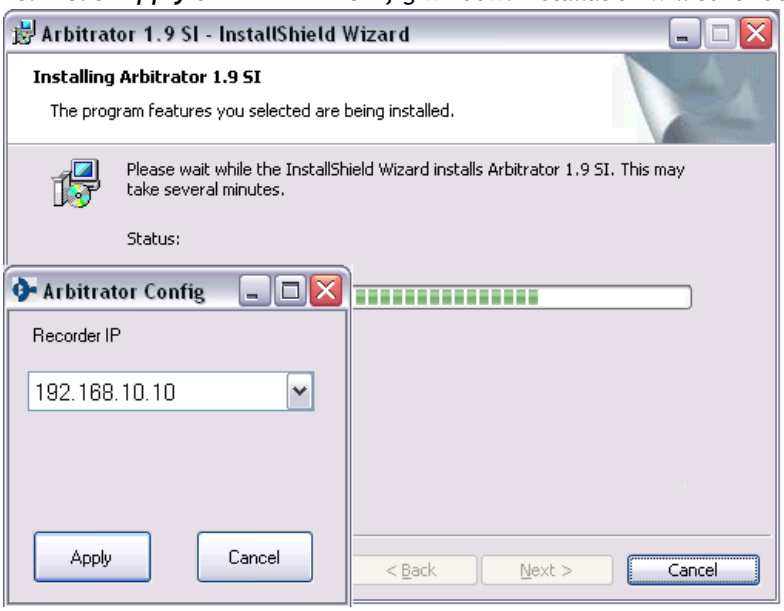
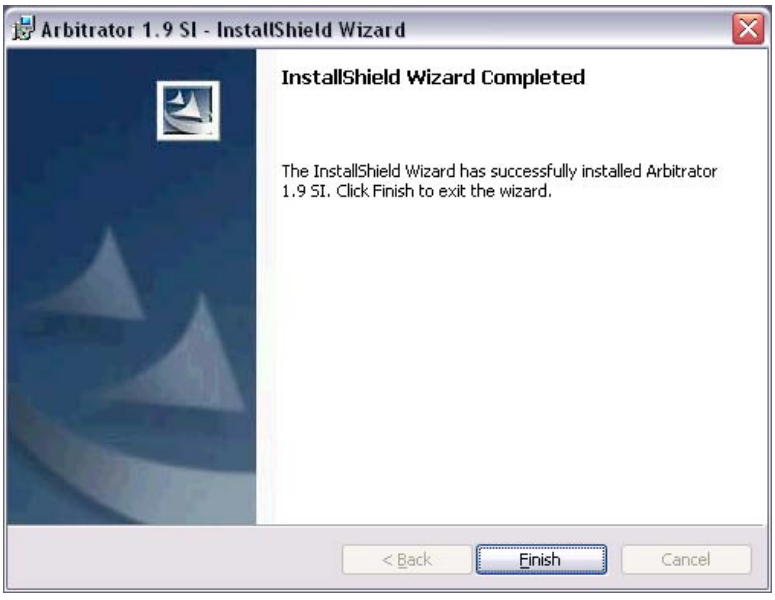
5. Click ***Apply*** on *Arbitrator Config* window. Installation will continue automatically.



6. Click ***Finish*** to complete the installation.


Arbitrator 1.9 SI - InstallShield Wizard
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed Arbitrator 1.9 SI. Click Finish to exit the wizard.
< Back
Finish
Cancel

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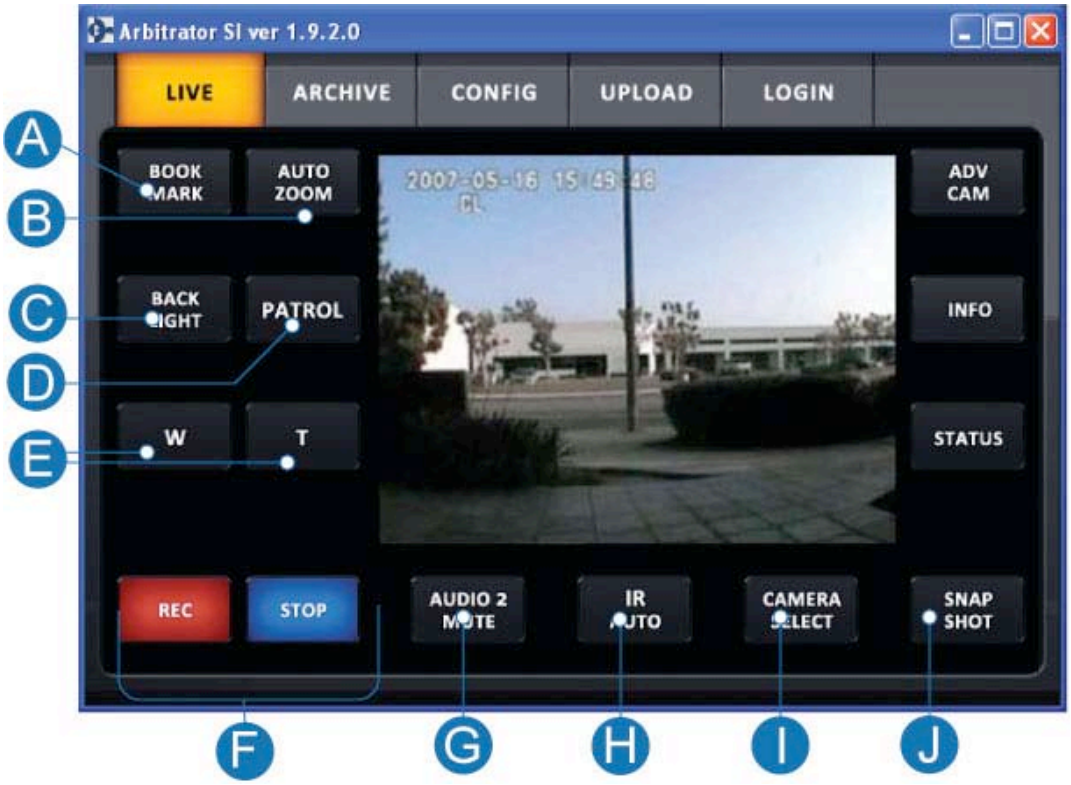
Overview

Arbitrator SI has five menu tabs: **Live, Archive, Config, Upload and Login**. Currently selected menu is highlighted in yellow. This menu allows user and administrator to view live camera activity, review previously recorded video files, configure the system, upload/export/burn to CD/DVD video files with metadata information and manage user login Information.

The Live View



A) ***Bookmark*** - Creates a bookmark while recording.

B) ***Auto Zoom*** - Zooms in or out at preset magnification intervals.

C) ***Backlight*** - Adjusts the camera's backlight compensation.

D) ***LPR/Patrol*** – Allows user to switch between LPR and Patrol mode. NOTE: This button will only be displayed if configured in the Congif tab.

E) ***W (Wide) and T (Telephoto) Lens*** - Adjusts the zoom.

F) ***Record (Rec) and Stop*** - Turns camera recording on or off.

G) ***Audio 2 Mute*** - Mutes the audio channel being recorded.

H) ***Status*** - Allows user to view the P2 Card storage, bookmarks, snapshots, and any status/error messages.

I) ***Camera Select*** - Allows you to switch between multiple cameras

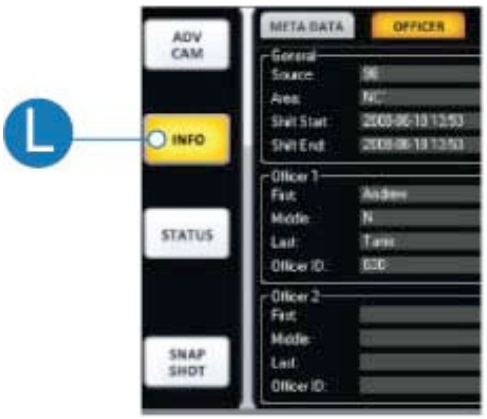
J) ***Snapshot*** - Takes a still image of the current screen and saves to "***Snapshot Directory***".

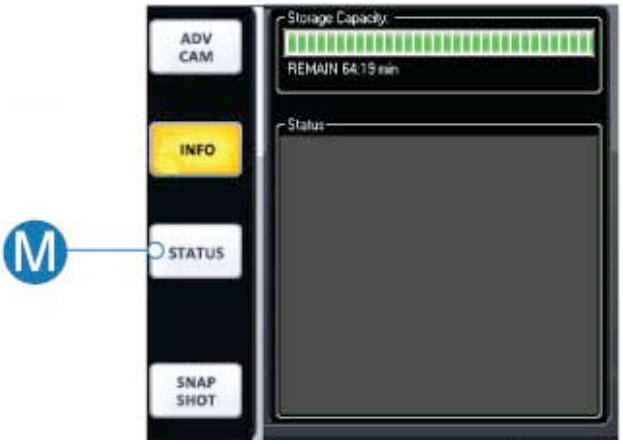
K) ***Adv Cam***- You can set Audio Control, Focus Control, Camera LED, LPR/Patrol mode and test Audio1/Audio2 functionality.

L) ***Info*** cont.- Allows you to view your General and Officer 1/ Officer 2 information.

L) ***Info*** - Allows you to view your Meta Data (GPS, Radar, and GPIO).

L) ***Status*** - Allows you to view the P2 Card storage, bookmarks, snapshots, and errors.





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To Record Video

1. Press "***Rec***" to start recording.

2. To stop recording press "***Stop***"

Note: When the user stops recording, depending on the settings selected for the Event Type, they will be either forced to enter "***Event Type***", not be required to enter "***Event Type"***, or will be given the option to close the "***Event Type"*** window by clicking on the Red "**X**". The box with the Red "X" is only available in "***Enable***" mode for "***Event Type***".

To Create a Bookmark

IMPORTANT: Bookmarks highlight specific events within the recorded video, so it is critical that bookmarks are identified appropriately according to department policy. Bookmarks are uploaded with the video file and can be queried in the CMS database.

1. Press "***Bookmark"***, if it successfully saves a yellow bar will momentarily appear and disappear. If the bookmark should not be successfully saved a red bar will appear with the word "ERROR".

To Adjust Camera Settings

1. Press "***Adv Cam***" to view and adjust advanced camera settings.

2. Modify the following settings as desired.

- **Camera LED** controls the recording LED. A red light will remain lit if the Camera LED is set to on.
- **Auto Exposure** sets the brightness of the image by adjusting exposure level.
- **Focus Controls** configures image sharpness manually or automatically.
- **Audio1 Test and Audio2Test** verifies audio transmission by selecting one of the audio channel buttons.
- **Audio 2 Select** allows the user to select the audio that the user wishes to record.

To Access Video Information

1. Press "***Info***" to view **Meta Data** and **Officer Information**.

Meta Data

- **GPS** (Global Positioning System) displays Latitude, Longitude, and Speed.
- **Radar** displays your Own and Target Radar information.
- **GPIO** (General Purpose Input Output) lists your Triggers and highlights them individually when they are activated.

Officer

General displays **Area, Source** and **Shift times**.

- **Officer1 and Officer2** displays Officer's Name and ID.

LPR (License Plate Recognition) *when Enabled*

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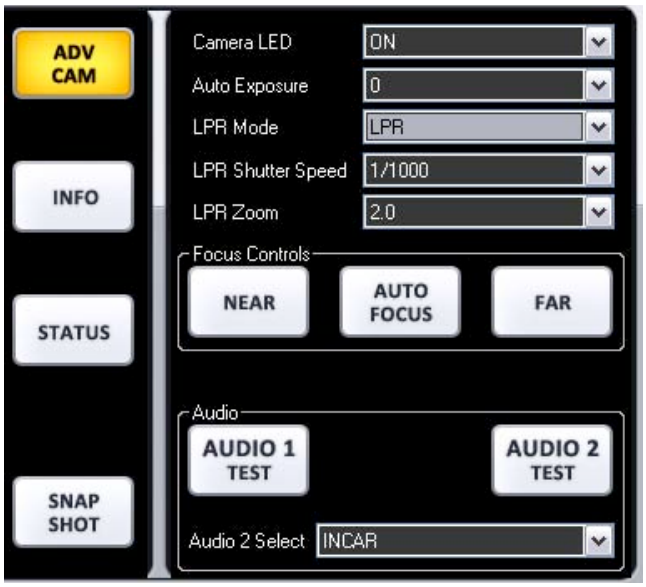
1. IMPORTANT: Press **"Adv Cam"** to view and adjust **LPR** mode settings.
2. Select the **"LPR Mode"** from the dropdown list. (Note: Patrol mode is the default setting.)
3. Adjust **LPR Shutter Speed** by selecting settings from the dropdown list.
4. **"LPR Zoom"** allows the user to select the desired zoom for LPR.

Note: LPR button on the Live tab will appear only if the configuration is set to enable.



To View System Status

1. Press **"Status"** to view system health.
2. Review the system status including:

- **Storage Capacity** - Indicates the available disk space on the recording device.
- **Status** - Displays the system messages including errors, bookmarks and snapshots.

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The Archive Tab

The **Archive Tab** allows users to review recorded videos. User may add bookmarks (event type and description) and snapshots.

Below are the different buttons that are available in the Archive Tab:

A) **Archive Menu**-Allows the users to navigate through the stored videos which are saved in chronological order.

B) **Allocated Disk Space**-Allows users to view how much space will be used from the disk with the selected files to burn. Note: This appears only if a disk is inserted.

C) **Display Screen**-This is where the selected video will be played.

D) **Burn Button**-Allows the user to burn a copy of desired file.

E) **Info Button-**Allows the users to view Meta-Data, officer, and Bookmark Information under the respective tabs.

F) **Audio 1 and Audio2**- These functions are muted by default to review audio you must select desired channel.

G) **Bookmark Tab**-In this tab the users can view bookmarks and enter the information on a new Bookmark.

H) **Bookmark button**-Enters a reference point on the saved video.

I) **Playback Controls**- Rewind (x2, x4, x20); Pause/Play, Half/quarter speed, Fast Forward (x2, x4, x20), and the slider bar. NOTE: The slider bar allows easy navigation backwards and forwards on the video.

J) **Snap Shot-**Allows the users to create a Snap Shot from the video being viewed and saved to the default folder (c:\SI\Snapshots)

View a Video File

1. From the *Archive Menu*, select Slot number to expand file view to respective dates
2. Select the *Date/Time* to expand file view to respective files
3. Double-click on video file for playback.

Create a Bookmark

1. Press "***Bookmark***".

2. Input bookmark information as follows:

- Date/Time-A dropdown list contains all timestamps of bookmarks associated with the selected video file.
- Event Type-Enter freeform text regarding the type of event or select from the dropdown list if Event Types had been loaded.
- Description-Enter freeform text regarding the event.
- Press "OK" to save bookmark. IMPORTANT: If you have not previously saved the information by clicking ***"OK"***, clicking the ***"Reload"*** button will clear all free form text fields.

NOTE: Bookmarks can be configured as a drop-down selection for the user. The configuration can also be set to force the user to select a Bookmark Event Type or can enable the choice to standardize bookmarks in the ***"Live"*** tab. The drop down list is also available in the Archive section.

How to Burn Files

1. Select file/s.

2. Select DVD format. See Figure 1 Appendix B

3. Click "Burn".

4. User will select Yes or No to include Standalone player. (Depending on selected DVD format this option will be displayed and if enabled in Config Tab). See Figure 3 Appendix B

5. Select number of copies. See Figure 2 Appendix B. Note: Burning process will begin.

6. Media device must be inserted before selecting files to estimate "Allocated disc space".

NOTE: CD is only supported for Data format, but DVD is recommended. RW- Media is supported to write but not for the deletion of current files stored in the RW-Media.

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Configuring Arbitrator SI

Administrators can make modifications to Arbitrator SI application from this menu. This section is broken into three sections: ***Config***, ***Operations*** and ***Registration***.

Note: Should admins already be loaded in the system, USB Authentication is required. Otherwise, password will be required to access this section.

Config Tab

From the ***Config*** tab, users can make changes as detailed below:

Admin Password	Administrators can change the password used to authenticate user for access to administration sections (i.e. Config tab, Export and Burn to CD/DVD)
Auto Maintenance	Auto maintenance runs Arbitrator through a self-diagnostics check. Administrators can define the day, time, month and week to run the Maintenance.
Auto Power Off	Administrators can set when the application, laptop, or both will power off. The SI and VPU will not shut down until the upload, export, or burn to DVD processes are complete and the ***Auto Power Off*** time has elapsed.
Camera	In this section, administrators have a variety of camera settings that can be set to suit user needs.
Date/Time	Administrators can set the format of the date and time as viewed in the ***Live Tab*** screen.
DVD Burning	Administrator can enable this feature to allow or disallow burning to DVD in the ***Archive tab***.
Evidence Tag	Administrators can adjust this setting to force, allow or disallow inclusion of bookmark event type to every recorded video file according to department policies.
File Transfer	Administrators have the option to set the desire destination to transfer the files
OSD	Administrators can define the applications on-screen display settings.
Programmed Rec	Administrators can set the system to start/stop record automatically on a daily basis.
Radar/GPS	Administrators can adjust Radar, GPS, and Rec Start Information settings to best suit user needs and department policies.
Rec/Play	Administrators can change video record and playback settings (***PostRec Time (Audio/Video)***, ***PreRec Time (Audio/Video)***, etc.)
Services	System information (firmware version and operating times) can be viewed here.
Software	Administrators can change application's look and feel in this section. (***Switch to Day/Night view at***, ***Day/Night View Auto Switch Enable***, ***Start in Day view***, ***Auto Logon***, ***Auto Logoff*** etc.)

Triggers	Administrators can associate triggers with ***Action***, ***Detection***, ***Name***, and ***Printable*** for up to eight triggers.

Auto Maintenance

To perform ***Auto Maintenance*** follow the steps below:

- **Day of Week**-Select what day of the week the test should run on.
- **Month Interval** - Select the time spacing between maintenance in months (1, 3, 6, and 12).
- **Next Maintenance Day**- Will show the next time the **Auto Maintenance** will run again.
- **Operation**-Turn on or off the settings for this feature
- **Time**-Sets the time the operation performs. A combination of setting the Hour and the Minute allotment.
- **Week of Month**-Sets the week of the month the administrator wants the test to run (1-4).

Auto Power Off

Auto Power Off settings are as follow:

- **Apply To**- The item that is affected by the auto power off. Settings include: Application Only, Laptop Only or Application and Laptop.
- **Default Action**- The action that takes place in the designated target after the allotment is met.
- **Timeout**- Sets when the **Timeout** action takes place, settings including 30, 60, 90, or 120 minutes.

Camera

Under the camera menu, you can adjust the following attributes:

- **AGC level**-Adjusts the camera's input gain control. Settings include low, mid, high and off.
- **Auto focus**-Adjusts the focus of the image when you press Auto Zoom in **Live Tab**. Settings include Auto, Disable, and, Preset.
- **Auto Zoom Magnification**-Sets the target zoom-in ratio. Settings include 1, 2, 3, 4, 5, 7, 10, 15, and 22.
- **Auto Zoom Time**-Sets the pause time for **Auto Zoon**. Settings include 3, 5, and 8 seconds.
- **Flip-**Virtually flips the camera image. Settings include On or Off.
- **Init AE Shift**-Adjusts the brightness when recording. Settings include 10, 30, 60, and 300 seconds.
- **Init Backlight**-Adjusts the backlight compensation on or off. Settings include On, Off or Last.
- **Init Camera LED**-Turns the camera LED on or off when recording. Settings include On, Off or Last.
- **Init IR Mode**-Sets the IR function when the power is on. Settings include Auto, On, Off, and Last.
- **Init LPR Mode**-Enables or Disables the LPR (License Plate Recognition) or Patrol Mode.
- **IR Level**-Adjusts IR level during automatic switching. Settings include low and high.
- **IR Time**-Sets the IR function detection time during automatic switching. Settings include 10, 30, 60, and 300 seconds.

- **Zoom Limit**- Provides maximum zoom ratio. Settings include x22 and x220.

Note: All settings that include "Init" in the beginning of the setting will not take effect until you power off then power on the laptop or engine. Check for a message on the bottom of the screen that states: "Choosing LST applies the settings in effect when power was last turned off. Unless power is turned off properly, the operating state may not be saved correctly."

Set Date and Time on Arbitrator Recorder

From the **Date/Time** menu, select from the following:

- **Style**-Sets the display formats for the **OSD** (On-Screen Display) date.
- **Time Zone**-Indicates time differences from world standard time. Settings Include:

ISO: YYYY-MM-DD	**USA:** MM/DD/YYYY
HH: MM: SS	HH: MM: SS

Enabling DVD Burning

- **Author DVD**-enabling this option will allow the user to burn and author DVD's in archive tab. Settings include Enable and Disable.
- **CD/DVD Burn on Archive**-Administrators can enable this setting to allow users to burn video files in Archive. Settings include Enable and Disable.
- **Standalone Player**-provides an option to include a standalone player with the files for viewing later. Settings include Enable, Disable and Forced.

Evidence Tag

In this section an administrator will be able to adjust the settings for the evidence tag. Adjustments allowed are:

- **Forced**- After the user stops recording they **MUST** select an Event Type.
- **Enabled**- Gives the user the option to enter an Event Type.
- **Disabled**- User is not prompted to select an event type after the recording is stopped.

Adjust File Transfer Settings

The following settings can be adjusted for ***File Transfers:***

*Under **Burn CD/DVD** menu item:*

- **Burn Buffer To**-Indicates the directory where files buffer before burning to CD/DVD (C:\SI\BurnBufferTo\).

Under **Export** *menu item:*

- **Export To**-Indicates the directory where the files buffer before being exported (C:\SI\ExportTo\).

*Under **Upload** menu item:*

- **Beacon Port**-Indicates the port where the beacon signal is received.

- **Buffer To**-Indicates the directory where files buffer before they upload to the server (C:\SI\UploadBufferTo\).
- **Server IP**-To transfer files manually to a CMS server, enter the server's IP address. To transfer files automatically from any CMS server, when in the vicinity, enter 0.0.0.0.
- **Use Auto Upload**-This setting turns on Arbitrator's automatic upload feature. Settings include true or false.

Adjust the OSD Display

The following settings can be used to adjust the **OSD** (On-screen Display) of the SI layout when in **Live** View.

Note: Settings will be displayed in the on-screen display as well as on recorded video files.

- **Display Position**-Indicates display position on the screen (position will be included when reviewing the saved video). Settings include 2lineR-upper, 2lineL-upper, 2lineR-bottom, 2lineL- bottom.
- **OSD**-Indicates whether any information is to be displayed on the screen and if it will be included in recorded video files.
- **Source@Area-**Indicates whether or not **Area@Source** displays on screen.
- **Time-**Indicates whether **Date/Time** information is to be display on the screen.
- **Trigger-**Indicates whether trigger information is to be displayed on the screen.

Programmed Rec

To Set Arbitrator to automatically record at specific time or dates, do the following:

- **End Time/Start Time**-Time frame in which the operation will run. Settings include freeform text.
- **Operation**-Indicates whether or not the feature will run in the specified day. Settings include On and Off.

Adjust the days to the desired action for each day of the week (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday and Sunday).

Radar/GPS

To configure the **GPS, Radar**, and **Rec** Start Information settings, adjust the following:

GPS

- **Collection Time**-This function sets up the GPS data collection time. Settings include 1, 2, 5 and 10 seconds.
- **Connection of GPS**-This function is used to specify the GPS connection port. Settings include VPU and off.
- **Geodetic System**-Notes the WGS84 standard that is used as a navigation reference.

Radar

Radar adjustments are listed below:

- **Baud Rate Setting**-1200, 2400, 4800, 9600, 19200, and 38400 bps.
- **Bit Length**-Settings include 7 or 8 bit.

- **Connection of Radar**-Use this function to specify the radar gun connection port. Settings include VPU and off.
- **Model Select**-Consult with supplier.
- **Parity Setting**-Settings include None, Odd, and Even.
- **Stop Bit Setting**-Settings include 1 or 2 bits.

Rec Start Information

Indicates at what vehicle speed the SI will start recording.

- **CAM Select in Speed**-Lists the specific camera that the system switches to once the set speed is reached. Settings include 1, 2, and No change.
- **Own Speed**-The traveling speed of the user's vehicle that will trigger the recording function.
- **Speed Unit**-This feature allows you to set the measurement of speed being used.
- **Target Speed**-The traveling speed of the target that triggers recording.
- **Speedpulse**-Refer to page 37 of the Panasonic Memory Card Video Recorder Operations Manual.

Rec/Play

- **Init Audio2 Rec**- Selects Audio2 input at power-on.
- **Init Camera Select**- Selected camera turns on at power-on.
- **PostRec Time Audio/Video**- Use this function to set the time interval video/audio recording, this will continue after the stop button is pressed. Note: The audio recording ends at the same time when the video postrecording ends, even if the PostRec Time (Audio) is set longer than the PostRec Time (Video). Settings include 0, 3, 10, 20, 30, 60, and 90 minutes.
- **PowerOff Time**- This function allows you to set the interval after which the Memory Card Video Recorded and this unit will shut down after the ignition switch has been set to the LOCK (OFF) position.
- **PowerOn Rec**- This allows you to set recording to start when the Memory Card Video Recorder is turned on. Settings: On/Off
- **PreRec Time Audio/Video**- This function allows you to select a pre record time and pre record audio time. Note: The audio recording starts at the same time when the video prerecording starts, even if the PreRec Time (Audio) is set longer than the PreRec Time (Video) Settings: 0, 3, 10, 20, 30, 60, and 90 minutes.
- **Resolution/RecRate**- Use this function to set the screen resolution and the recording rate.

Service

The Service menu item displays the following:

- Version number of Arbitrator VPU.
- Version number of the firmware.
- BIOS of the VPU.
- Amount of time Arbitrator unit has been operating.

- Amount of time the system fans have been operating.
- Amount of time the cameras have been operating.

Software

The following settings will adjust the software application's graphic features:

- **Auto Logoff**- When enabled, the user will be automatically logged off when the application is closed.
- **Auto Logon**- When enabled, the application will automatically enter user information in the Login Tab (a user list must be sent to Arbitrator SI for user information recognition when signing in to laptop).
- **Day/Night View Auto Switch Enabled**- When enabled, switch to day/night view is permitted when current time meets configured switch time.
- **Snapshot Dir**-Indicates the directory where the snapshots are saved (C:\SI\Snapshots\).
- **Start in Day View**-Indicates whether the software application settings should start up in day view graphic mode. Settings include True and False.
- **Switch to Day (or Night) View at**-sets time when the application should automatically change between day and night graphical interface. Settings are time based in hours and minutes.

Triggers

Set GPIO Triggers

Arbitrator can set up to 8 GPIO Triggers. These selections can be configured based on the needs of individual departments as follows:

GPIO-setting controls whether or not the inputs being monitored are on or off.

Trigger (1 through 8)

- **Action**-This setting determines what happens when the selected trigger has been initiated. Each of these actions has their own detection zone. Settings include REC (Start System Recording), CAM1REC (Start Camera 1 Recording), CAM2REC (Start Camera 2 Recording), STOP (Stop System Recording), CAM1 (Switches to Camera 1), CAM2 (Switches to Camera 2), AUTOZOOM (Triggers the Camera's Auto Zoom) and CAM1LED (Triggers the Camera's LED).
- **Detection**-Enter conditions for detection of the trigger. Note: These settings are based on the action you've selected. Settings include: H (High-edge Trigger), Level H (High-level Trigger), L (Low-edge Trigger), Level L (Low-level Trigger), and B (Double-edge Trigger).
- **Name**-Is the label or description of the trigger entered in the free form text field.
- **Printable**-This function assigns a letter to be shown on the OSD (On-Screen Display). Settings include A-Z.

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Operations Tab (Under Config Tab)

The Operations tab allows administrators to modify settings that have a direct connection to Arbitrator VPU. This includes interaction with the P2 cards, firmware updates, time settings, system restore, and radar communication.

A) **Synchronize Time**-Synchronizes the time of Arbitrator's VPU with the time on the laptop that it is connected to.

B) **Delete All Files**-Sends a command to Arbitrator VPU to delete the files stored in the P2 cards.

C) **Format**-Sends a command to Arbitrator VPU to format the P2 cards.

D) **Register Radar**-Verifies the connected radar unit is in communication with Arbitrator unit.

E) **Version Up**-Upgrades the current firmware version of the attached Arbitrator unit to the latest firmware available. This can be done using a P2 card or a USB key that contains ONLY the firmware file.

F) **Menu Copy**-Copies the entire configuration setting in the "Config" tab to an empty USB key to transfer to another Arbitrator unit.

G) **Factory Default-Restores** Arbitrator back to factory default. Note: this function will not restore the following: - File Transfer, - Administrator Password, - Auto Power Off, -Software.

Registration Tab

In this sub tab you can **Load Admin** and **Load Event Type**.

- **Load Admin-** Use this function to load administrator data from a USB memory device, and overwrite any existing administrator data. Note: This function blocks the user from the **Config** tab, Export and Burn to CD/DVD function under the Upload tab. Only the administrator can unblock these sections by logging in with the USB key were the administrator's information is stored.

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Load Admin

1. Create a folder called "**WIDKEY**" (all letters **MUST** be caps).
2. In **WIDKEY** folder create a text file called "**wadmin**".
3. Type:

   #1_ _ _ _ _ _ _ _ _ _ _ _ _
   FirstName=_____

   MiddleName=_____
   LastName=_____
   ID=_____
   Password=_____
4. Save the Information in a USB key.
5. Connect the USB key to the back of Arbitrator.
6. In the SI go to "Config" tab.
7. Go to "Registration"
8. Click "Load Admin"
9. Your Admin should display rapidly.

Note: Any items preceded by a pound symbol denotes that these are optional entries.

Load Admin User

1. In **WIDKEY** folder create a text file called "**wid**".
2. Type:

   FirstName=_____

   MiddleName=_____
   LastName=_____
   ID=_____
   Password=_____

   Area=_____

   Source=_____
3. Save the Information in a USB key.
4. Connect the USB key to the back of Arbitrator.
5. In the SI go to "Config" tab.

6. This information will allow the Administrator to log back in and have access to the Config tab. IMPORTANT! This information should be identical to the information entered in the "wadmin" file. Failure to do so will lock the Administrator out of the Config tab.

Load Event Type

How to set a customizable Event Type using a USB Drive

This feature allows the user to customize bookmark event types. For example, DUI, Speeding, etc. The user can configure up to 10 distinct Event Types.

To set up Bookmark Event Type from Arbitrator SI:

1. Create a folder called "WIDKEY" (all letters MUST be caps).
2. In WIDKEY folder create a text file called "evtype".
3. Type "EVTYPE1=_____". Fill in the blank with the desired bookmark event type.
4. Continue to type in sequence the desired bookmark event types (up to 10; i.e. EVTYPE2=Domestic Violence; EVTYPE3=Speeding).
5. Save the information in a USB key.
6. Connect the USBkey to the back of the Arbitrator VPU.
7. In the SI go to "Config" tab.
8. Go to "Registration"
9. Click "Load Event Type"

Your Event Type list should display rapidly.

Event Type options:

- Enable - allows the user to select a bookmark Event Type
- Disable - disables the bookmark event type
- Force - requires the user to select one of the bookmark event types.

NOTE: Old event types will be overwritten when loadings new Event Types. The Event Type service is also available through the Update Service (CMS). Update Service also allows the Administrator to set up to 25 Event Types.

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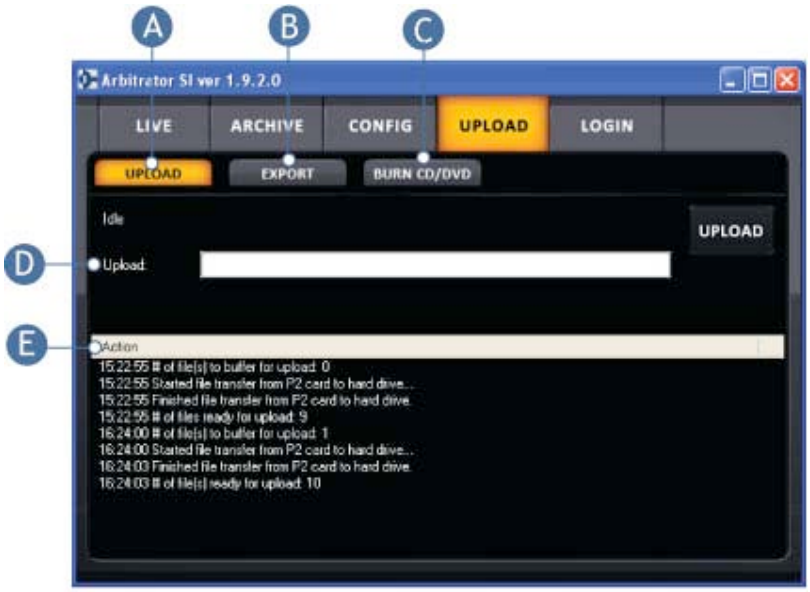
Upload Tab

Arbitrator SI supports multiple methods of file extraction. The preferred method is for the mobile system to automatically upload the files to the CMS Video Management System through a network connection. If automatic upload is not a viable option, the system can be configured for Manual Upload.

Note: If network connectivity is not available, administrators can export files directly from the recorder to their PC or they can burn a CD/DVD with the files directly from the SI. These features require a password to log in or a USB key with "wadmin" file to authenticate Admin access.



A) **Buffer**-Files are buffered to an upload directory on the local machine before being pushed across the network. The Status Bar lets the administrator know the progression of the buffering process.

B) **Export**-Administrators can export files in their native format to a location on the local system. Note: This feature is password protected.

C) **Burn CD/DVD-**Files that cannot be uploaded to the CMS Video Management System can be burned to a CD or DVD directly from the vehicle.

- Click "**Burn CD/DVD**".
- Enter User Password.
- Select burning device.
- Click "**Burn**".
- Select burn format. See Figure 1, Appendix B. Note: After the burn is complete, the user has the choice to keep or permanently delete all files that have been burned.
- **Progress status Bar**-When the files have been buffered, the system will be ready to initiate the upload process. In the event of an automatic upload, this process will begin immediately after receiving Beacon

Notification with the status being displayed on this progress bar. If manual upload has been set up, the user will need to select the **"Upload"** button to begin the process.

- **Action**-All actions taken during the upload process will be listed here. The status of the action, successful buffering, uploading or exporting will be listed as well as any errors.

Login Tab

In this tab users will be able to enter the information pertaining to the current recording session. **Officer Names**, **ID's**, **Shift Pattern**, as well as the **Area and Source**, are all fields that will be required to be filled out in order for the video to record, upload, and be queried properly.

IMPORTANT: Each time an Officer begins a new shift, they should login with their information. All of the fields in the **Login Tab** are available as searchable criteria in the CMS Video Management System so it is critical that this information be accurate.

A) **Shift Information**-The start and end time of the current shift should be entered here. Shift patterns should be based on the shifts of the users currently using the system.

B) **Vehicle Information**-These fields control the recorded Area and Source of the vehicle. Area is a description of the general location of where the mobile unit is at the time of the recording. Source is the description of the vehicle itself (i.e. area may be noted as Central and Source may be noted as vehicle number 102).

C) **Officer 1** - This field should reflect the current user of the system during the recording session.

D) **Officer 2** - This field is used in the event of multiple users.

IMPORTANT: After filling out the login information completely, click "Apply" to save settings entered or "Cancel" to discard all entries. User Information entered must be the same as the user in CMS.

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Appendix A

8881- Beacon

8883- Coordinator Status Message

8884- Service Status Message

8895- SV Recorder to Upload

8896- FICS / Transporter

8897- ICUS Discovery Message

8898- ICUS- IMUS Communicator

Appendix B

DVD Burn Format- This window allows the user to select the format of the DVD user would like to burn. Window usually appears in Archive and Upload Tab. Options include: Data DVD and Authored DVD.

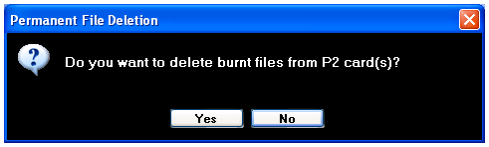
Multiple DVD's - On this window user will be asked to enter the amount of copies wanted for the file/s that are being burned. Window usually appears in Archive and/or in Upload Tab.

Standalone Player- Standalone window gives the user the option to include Standalone Player to play back the Data DVD. This window will prompt the user if the Standalone Player configuration was set to Enable.

No Media
Please insert blank or rewritable disc. Click OK when ready.
DVD-R DL, DVD-R DL, DVD+R/DVD+RW, DVD-R/DVD-RW, DVD-RAM, DVD-ROM,
CD-R/CD-RW, BD-R/BD-RE
OK
Cancel

No media-User does not contain any media in the drive therefore this window alerts the user to insert correct media to begin the burn.

CD/DVD Burn Complete- This window indicates the user that the burn was a success and it has been completed.



Permanent File Deletion- After every burn user has the option of keep the video files burnt or permanently delete them.

Wrong Media
Please insert blank or rewritable disc. Click OK when ready.
DVD-R DL, DVD-R DL, DVD+R/DVD+RW, DVD-R/DVD-RW, DVD-RAM, DVD-ROM
OK
Cancel

Wrong Media- If inserting non-supported disc or incorrect media this window alerts the user to insert correct disc to continue.

Used Media Found- If disc contains files, the application will require the user to change to a blank disc.

DVD Burn Cancel- When a burning process has been canceled, this window will warn the user that the burn was interrupted.